



FortiSwitch 108F Series

FS-108F, FS-108F-POE, FS-108F-FPOE

Product Registration

Thank you for purchasing a FortiSwitch

Register to access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your Device:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>



July 14, 2021

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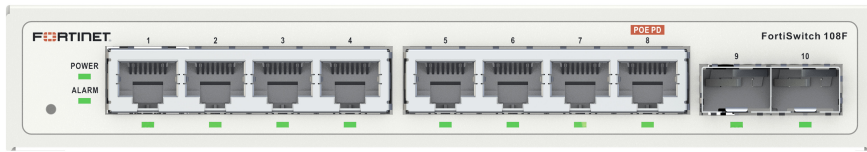
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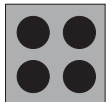
FortiSwitch 108F



QuickStart Guide



Console Cable
(DB9 to RJ45)

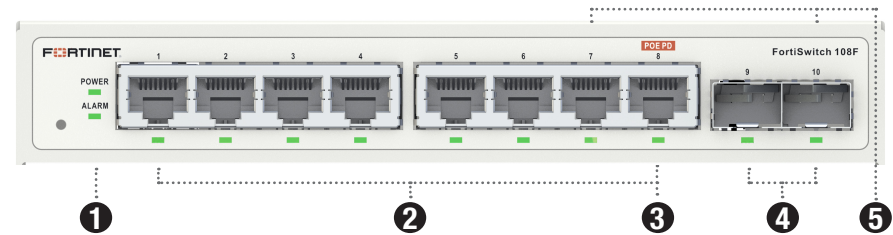


4x Rubber Feet



12V DC / 1A Power Adapter
with US/EU Plugs

Front Panel - FS-108F



1 POWER

- **Green:** Power is on
- **Off:** Power is off

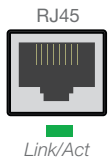
ALARM

- **Amber:** Fault detected
- **Off:** No fault detected

2 Ports 1 to 8 (RJ45) GE network connections

- **Green:** Connected at 1Gbps
- **Flashing Green:** Transmitting & receiving data at 1Gbps
- **Off:** No Gbps link established

- **Amber:** Connected at 100Mbps
- **Flashing Amber:** Transmitting & receiving data at 100Mbps
- **Off:** No 100Mbps link established

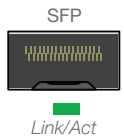


3 Port 8 PoE (RJ-45) GE with PoE PD support, 802.3af/at compliant

NOTE: The supplied 12VDC power adapter can be used or a PoE PSE device to power the FS-108F

4 Ports 9 to 10 (SFP) 1Gbps SFP connections

- **Green:** Connected
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



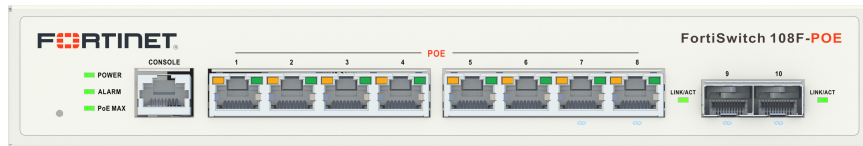
5 FortiLink Ports 7 to 10 (RJ45 & SFP) FortiLink interface connections

Rear Panel - FS-108F



- 1 Grounding Screw** Used for an additional protective earth connection and is reserved for an application where a permanent local connection of protective earth is required for a network switch
- 2 Power Supply** 12V DC Adapter, AC input 100-240V AC, 1.0A Max, 50-60Hz
- 3 Console (RJ-45)** CLI management computer interface

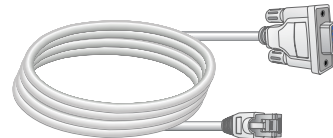
Contents - FS-108F-POE



FortiSwitch 108F-POE



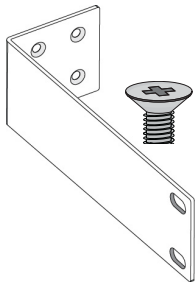
QuickStart Guide



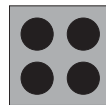
Console Cable
(DB9 to RJ45)



Power Cable

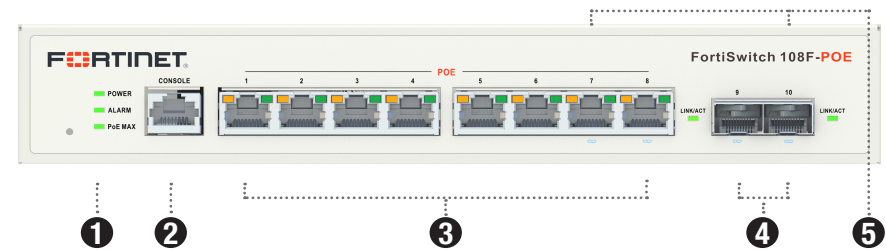


2x Rack-Mount Brackets with
8x Bracket Screws



4x Rubber Feet

Front Panel - FS-108F-POE



1 POWER

- **Green:** Power is on
- **Off:** Power is off

ALARM

- **Amber:** Fault detected
- **Off:** No fault detected

PoE MAX (up to 65W)

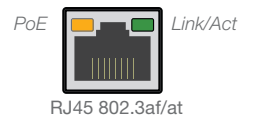
- **Amber:** PoE output power reached MAX power
- **Off:** PoE power available

2 CONSOLE CLI management computer interface

3 Ports 1 to 8 (RJ45) GE network connections

- **Amber:** PoE output
- **Off:** PoE output

- **Green:** Connected at 1Gbps or 100Mbps
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



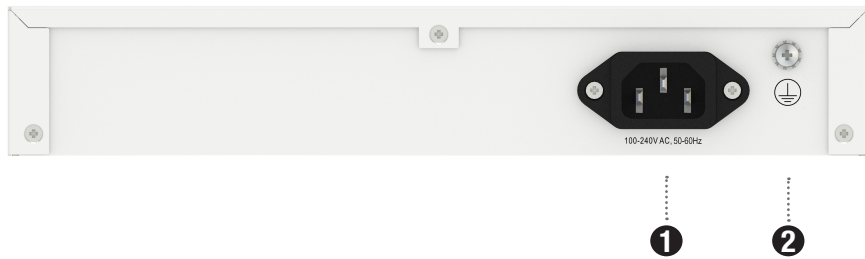
4 Ports 9 to 10 (SFP) 1Gbps SFP connections

- **Green:** Connected
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



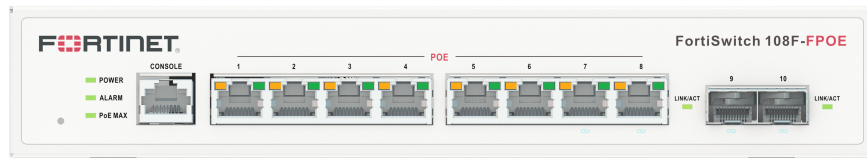
5 FortiLink Ports 7 to 10 (RJ45 & SFP) FortiLink interface connections

Rear Panel - FS-108F-POE



- 1 Power Supply** 100-240V AC, 0.75A Max, 50-60Hz
- 2 Grounding Screw** Used for an additional protective earth connection and is reserved for an application where a permanent local connection of protective earth is required for a network switch

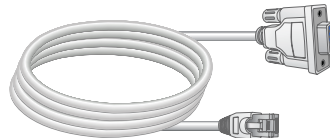
Contents - FS-108F-FPOE



FortiSwitch 108F-FPOE



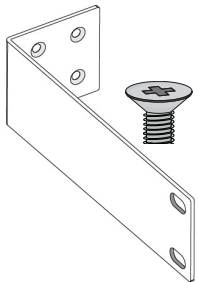
QuickStart Guide



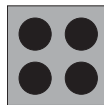
Console Cable
(DB9 to RJ45)



Power Cable

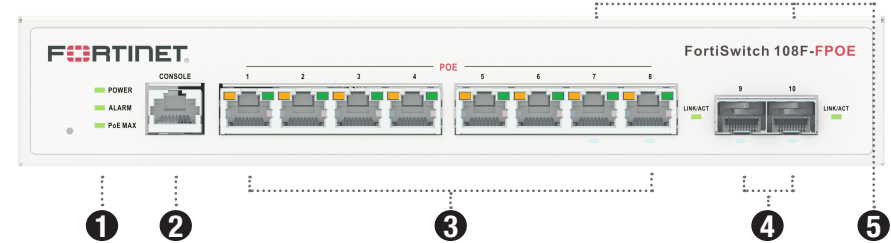


2x Rack-Mount Brackets with
8x Bracket Screws



4x Rubber Feet

Front Panel - FS-108F-FPOE



1 POWER

- **Green:** Power is on
- **Off:** Power is off

ALARM

- **Amber:** Fault detected
- **Off:** No fault detected

PoE MAX (up to 130W)

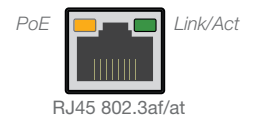
- **Amber:** PoE output power reached MAX power
- **Off:** PoE power available

2 CONSOLE CLI management computer interface

3 Ports 1 to 8 (RJ45) GE network connections

- **Amber:** PoE output
- **Off:** PoE output

- **Green:** Connected at 1Gbps or 100Mbps
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



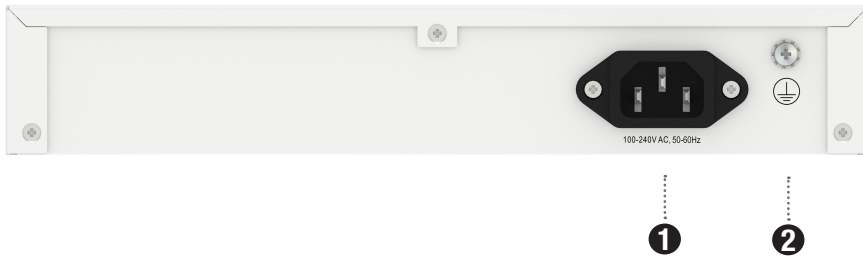
4 Ports 9 to 10 (SFP) 1Gbps SFP connections

- **Green:** Connected
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



5 FortiLink Ports 7 to 10 (RJ45 & SFP) FortiLink interface connections

Rear Panel - FS-108F-FPOE



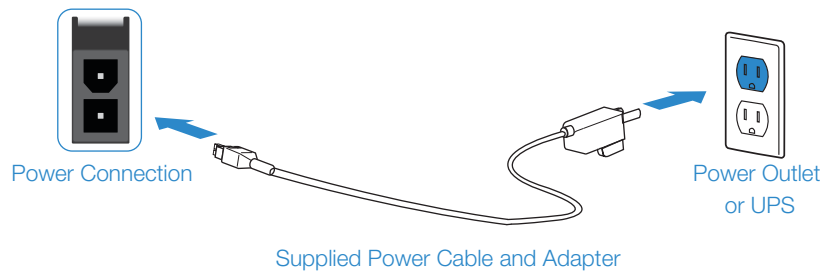
- 1 Power Supply** 100-240V AC, 1.4A Max, 50-60Hz
- 2 Grounding Screw** Used for an additional protective earth connection and is reserved for an application where a permanent local connection of protective earth is required for a network switch

Installation Options

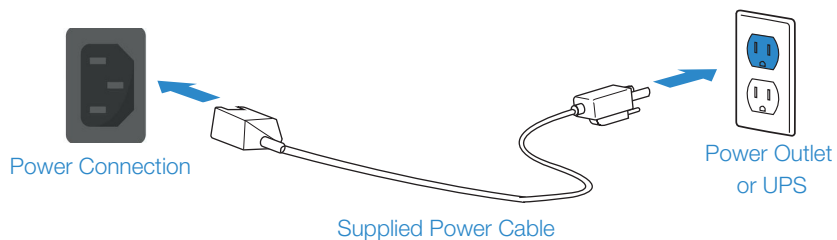
Your device includes a rackmount kit. You can also install your device as Desktop. Custom Rack/Rail kits are also available.

Basic Connections

For Model FS-108F



For Models FS-108F-POE, FS-108F-POE



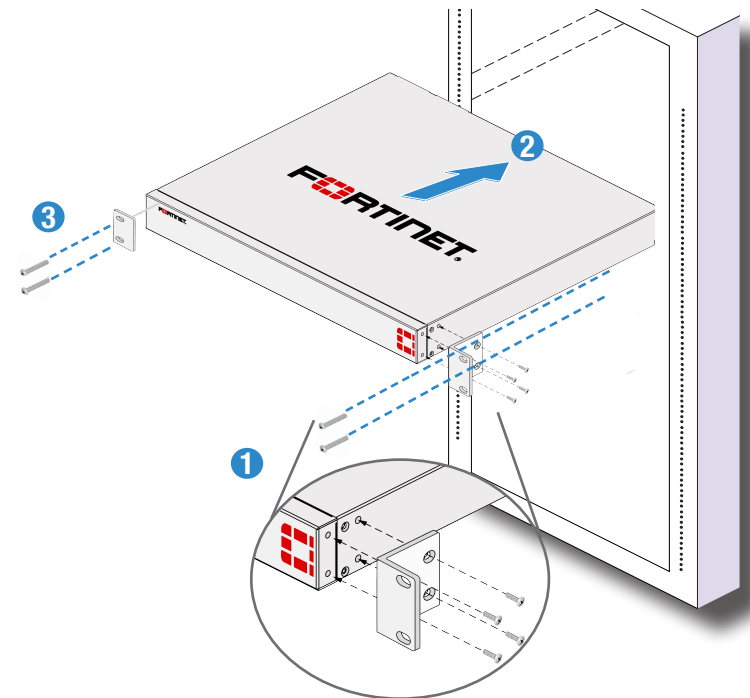
Plug in your device to a power outlet using the provided power cables.

Note: We recommend connecting your FortiSwitch to an [uninterruptible power supply \(UPS\)](#) in case of a power outage

Rack Installation

This device mounts in a standard 19 inch rack.

1. [Attach](#) the provided rack-mount [brackets and screws](#)
2. [Position](#) the device and [slide into the rack](#)
3. [Fasten](#) rack screws to [secure the device](#)

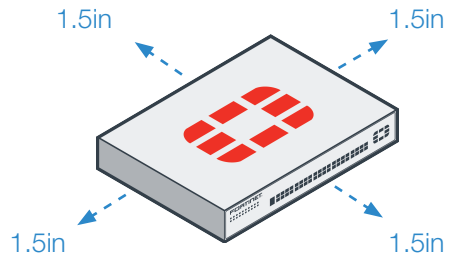


Caution: Ensure there is at least 1.5 inches of space above and below the device

Warning: For safety, it is recommended that two people install the device

Desktop Option

1. Place the unit on a flat, clean and stable surface
2. Ensure there is at least 1.5in of clearance for adequate airflow

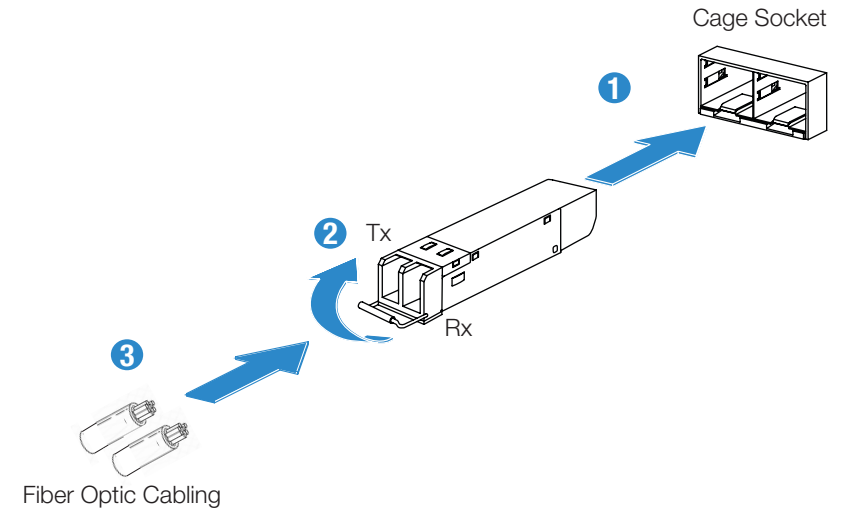


3. Plug the provided power cables into the rear of the unit and then into a grounded electrical outlet or separate power source

1Gbps SFP Transceivers

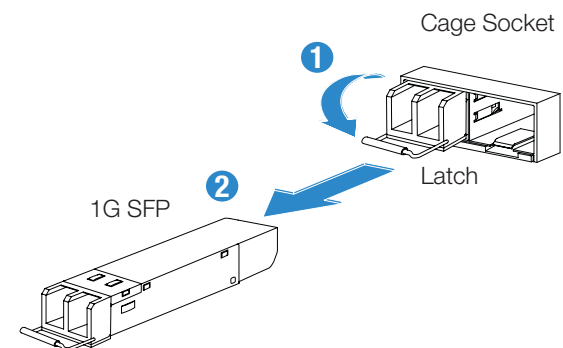
To install 1G SFP transceivers:

1. Slide the 1G SFP into the cage socket until it clicks into place
2. Lift the latch to lock the 1G SFP
3. Connect the fiber optic cabling to the 1G SFP



To remove the 1G SFP transceivers:

1. Lower the latch to unlock the 1G SFP
2. Carefully pull the 1G SFP out of the cage socket



Setup Options

Set up your device locally using the GUI, CLI or FortiLink Management. Choose an option to complete your setup, then configure your device.



Local Setup

A GUI

An [easy-to-use GUI](#), compatible with most web browsers. To minimize scrolling, the screen resolution should be at least 1280 x 1024 pixels.



Local Setup

B Command Line Interface (CLI)

An alternate configuration tool from the web-based manager that uses a [terminal emulation](#) application to [type commands](#) or upload batches of commands from a text file or [configuration script](#).

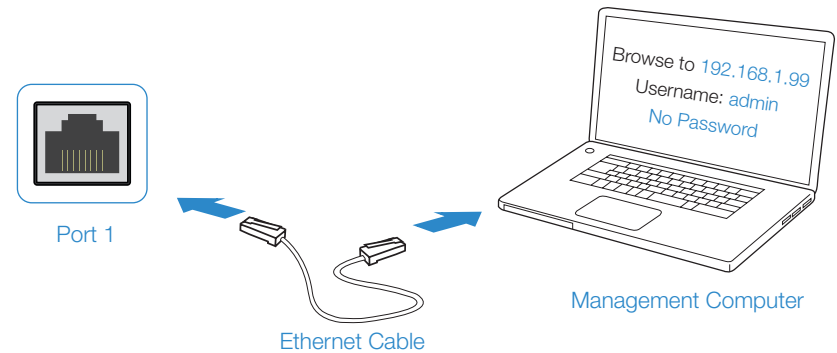


FortiLink Setup

C FortiLink Management

FortiGate units can [remotely manage](#) FortiSwitch units, known as using a [FortiSwitch in FortiLink mode](#). See the FortiOS Admin guide on docs.fortinet.com for detailed information.

A GUI



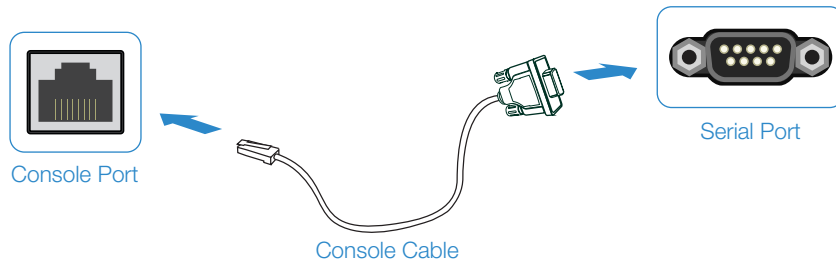
1. Connect [port 1](#) to the [Management Computer](#) using the supplied [Ethernet cable](#)
2. Enable [DHCP](#) or set the Management Computer's [IP](#) and [subnet](#) to:

Static IP Address: [192.168.1.1](#)
Subnet Mask: [255.255.255.0](#)

3. Visit <https://192.168.1.99> in a web browser
4. [Log in](#) with the username [admin](#) and [no password](#)
5. You can now configure your FortiSwitch

Note: After you log in for the first time, you will be prompted to set a new password

B CLI



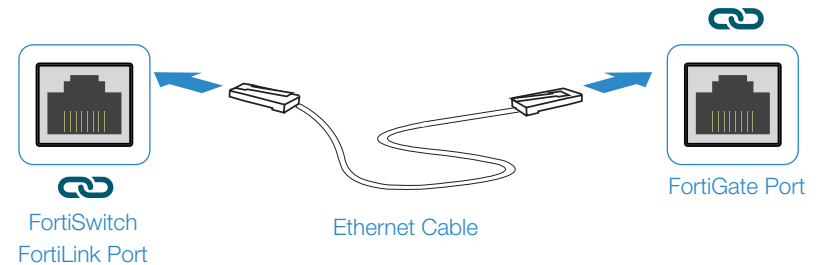
1. Connect the [Console Port](#) with a [Console Cable](#) to the [Serial Port](#) on the [Management Computer](#)
2. Start a [terminal program](#) on the [Management Computer](#) and select an available [COM Port](#) using the following default settings:

Baud rate: 115200
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

3. Log in using username [admin](#) and [no password](#)
4. You can now configure your FortiSwitch

Note: After you log in for the first time, you will be prompted to set a new password

C FortiLink



1. Connect a [FortiSwitch FortiLink Port](#) directly using an Ethernet Cable to a [FortiGate FortiLink Port](#) or any FortiGate Port that is not an HA port
2. Login to the FortiGate and go to the [WiFi & Switch Controller --> FortiLink Interface](#)
3. [Add a FortiGate Port](#) in the FortiLink interface and choose [Automatically authorize devices](#)
4. When the [FortiSwitch is online](#) in the [WiFi & Switch Controller --> Managed FortiSwitch](#) section, you can now manage your FortiSwitch

Resources

Refer to the following resources to continue your FortiSwitch setup.

Fortinet Customer Service & Support

Create a support account, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

<https://support.fortinet.com>

Fortinet Document Library

Up-to-date versions of Fortinet publications for the entire family of Fortinet products.

<http://docs.fortinet.com>

Training Services

Course descriptions, availability, schedules, and location of training programs in your area.

<http://www.fortinet.com/support/training.html>

Technical Discussion Forums

Communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues.

<https://support.fortinet.com/forum>

FortiGuard Threat Research and Response

Up-to-date information on vulnerabilities and threats, includes a virus scanner, IP signature look-up, and web filtering tools.

<http://www.fortiguards.com>

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 45°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Température ambiante élevée - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T_{ma}) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Ventilation réduite - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Chargement Mécanique - Montage de l'équipement dans le rack doit être tel qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenstion - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre - Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Battery - Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie - Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:
There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.
Dispose batteries of according to the manufacturer's instructions.
Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.
Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.
If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNING:
Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Caution: This equipment is to be used in a Network Environment 0 per IEC62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

Laser Class 1 optical transceiver shall be used only
L'émetteur-récepteur optique de classe 1 laser doit être utilisé uniquement

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-003 (A) / NMB-003 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。
V C C I – A

Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法 (PSE) の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
限用物質含有情況表 (RoHS Table) 請以下 網址下載:
<https://www.fortinet.com/bsmi>

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

英屬蓋曼群島商防特網股份有限公司 台灣分公司
地址：台北市內湖區行愛路176號2樓
電話：(02) 27961666

China

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。此种情况下，可能需要用户对其采取切实可行的措施。

Fortinet Product License Agreement / EULA and Warranty Terms

Product License Agreement

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TO THE MAXIMUM EXTENT PERMITTED BY LAW AND NOTWITHSTANDING ANYTHING TO THE CONTRARY, FORTINET IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY, INFRINGEMENT OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT OR SERVICE OR ANY DAMAGES OF ANY KIND WHATSOEVER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF PROFIT, LOSS OF OPPORTUNITY, LOSS OR DAMAGE RELATED TO USE OF THE PRODUCT OR SERVICE IN CONNECTION WITH HIGH RISK ACTIVITIES, DE-INSTALLATION AND INSTALLATION FEES AND COSTS, DAMAGE TO PERSONAL OR REAL PROPERTY, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, COMPUTER SECURITY BREACH, COMPUTER VIRUS INFECTION, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT INCLUDING ANY PRODUCT RETURNED TO FORTINET FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THE LIMITED WARRANTY IN SECTION 6 ABOVE, EVEN IF FORTINET HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE LIMITED WARRANTY IS, AT FORTINET'S SOLE AND ABSOLUTE DISCRETION: REPAIR, REPLACEMENT, OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT AS SPECIFICALLY STATED IN SECTION 6 ABOVE. PROVIDED, HOWEVER, IN NO EVENT SHALL ANY END-CUSTOMER REMEDIES UNDER THIS EULA AND ANY SUPPORT AGREEMENT EXCEED THE AMOUNT PAID TO FORTINET FOR THE SPECIFIC APPLICABLE DEFECTIVE OR NON-CONFORMING PRODUCT AT ISSUE.

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